Milwaukee County COVID-19 Data Summary

Milwaukee County COVID-19 Epidemiology Intel Team

This report was updated on April 15, 2021 and includes data through April 13, 2021. Note that data for recent weeks may be under-reported due to pending test results.

Milwaukee County COVID-19 Summary Statistics

Overall Milwaukee County COVID-19 Summary Statistics March 5, 2020 - April 13, 2021					
	Milwaukee County	City of Milwaukee	Suburbs		
Total tests performed	1,295,453	817,092	478,361		
Percent positive of all tests performed	8.8%	8.8%	8.8%		
Number of confirmed cases	101,846	64,282	37,564		
Number of hospitalizations	6,268	4,058	2,210		
Number of deaths	1,287	684	603		
Case fatality rate	1.3%	1.1%	1.6%		

Weekly Milwaukee County COVID-19 Summary Statistics April 7, 2021 - April 13, 2021					
	Milwaukee County	City of Milwaukee	Suburbs		
Total tests performed	16,589	10,260	6,329		
Percent positive of all tests performed	5.7%	5.6%	5.9%		
Number of confirmed cases	812	545	267		
Number of hospitalizations	97	69	28		
Number of deaths	4	3	1		

Total Cases and New Cases

There are now a total of 101846 cases in Milwaukee County, since the first confirmed case on March 6th, 2020. Over the last week, we observed 812 new confirmed cases in Milwaukee County, including 545 new cases in the city of Milwaukee. **Figure 1** shows the daily incidence of new cases (bars) and the average daily incidence within the last 7 days (line), which provides a smoothing effect to enhance visualization, for both the city and the county. To indicate a potential reporting delay, we shade the last seven days of data and exclude those days from the trend line.

Over the last week, we have seen a slight increase in confirmed cases. The highest daily case count since the beginning of the epidemic occurred on November 9, 2020, with 1677 cases in the county overall. The highest daily case count over the entire epidemic in the suburbs occurred on November 9, 2020, with a total of 669 cases confirmed. The highest case count in the city occurred on November 9, 2020, with a total of 1008 cases confirmed.

Figure 1: Milwaukee County daily number of COVID-19 cases

Date of specimen collection

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Total Deaths and New Deaths

There are a total of 1287 COVID-19 related deaths in Milwaukee County. Over the last week, we observed 4 deaths, with 3 from the City of Milwaukee. **Figure 2** shows the number of daily COVID-19 related deaths among Milwaukee County and City of Milwaukee residents. The overlaid lines show the average daily deaths within the last 7 days for each jurisdiction. Deaths in the county peaked on December 1, 2020. Deaths in the city peaked on December 1, 2020 with 10 deaths, and in the suburbs on November 15, 2020 with 10 deaths. Over the last few months, the number of deaths in the suburbs rose to the highest level since the beginning of the epidemic, outpacing deaths in the city.

20 Milwaukee County Suburbs 18 City of Milwaukee 16 14 Daily deaths 12 10 8 6 4 2 AUD'S 404.01 Date of death

Figure 2: Milwaukee County COVID-19 daily deaths

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

The COVID-19 Growth Rate

The time it takes for the number of cases to double is called the doubling time. **Figure 3** shows doubling times for Milwaukee County, the surrounding Waukesha, Ozaukee and Walworth (WOW) counties, the M7 (7-county) metropolitan area, and the state of Wisconsin. Dotted lines indicate doubling times of 1, 2 3 and 4 days, which are generally associated with a condition of exponential growth. The current doubling time in Milwaukee County is 340.30 days. The current doubling time for WOW counties is 54.39 days. The current doubling time for the state of Wisconsin is 42.95 days. **Figure 4** shows the trend in doubling times for Milwaukee County and the City of Milwaukee as compared to the state, over the course of the epidemic. As illustrated, the epidemic initially doubled more quickly in Milwaukee County and the city, but has since slowed (improved) more in the city and county than in the state as a whole.

Figure 3: Cumulative cases after 20 confirmed Confirmed cases (log10 scale) MKE County 100000 MKE Metro **WOW Counties** 10000 WI State 1-day doubling 1000 2-day doubling 3-day doubling 100 4-day doubling 50 100 150 200 250 Days since 20 confirmed cases

Data source: Wisconsin Department of Health Services Created by the Milwaukee County COVID-19 Epidemiology Intel Team

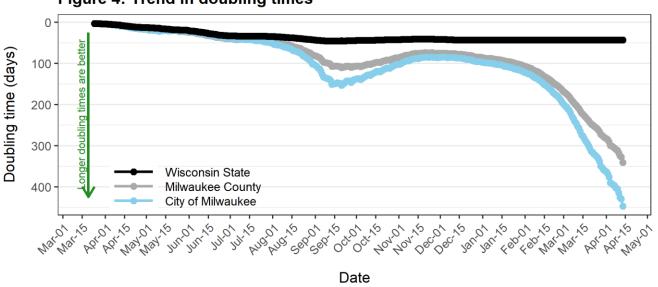


Figure 4: Trend in doubling times

Data sources: WI Department of Health Services & WI Electronic Disease Surveillance System Created by the Milwaukee County COVID-19 Epidemiology Intel Team

The COVID-19 Reproductive Number

Another way of examining the growth rate of the infection is to examine the reproductive number (R). This number captures the number of new cases that are the result of an existing case. For example, an R of 2 would indicate that each infected person infects 2 new people. The following plots show the change in R over time for Milwaukee County, **Figure 5**, the City of Milwaukee, **Figure 6a**, and Milwaukee County suburbs, **Figure 6b**. Each plot includes key dates related to physical distancing or focused testing campaigns affecting residents. The R for each date is calculated to represent the R for a 7-day period with the start day of that 7-day period represented on the graph. We do not report estimates for the most recent seven days due to a potential data reporting delay.

After the first minimum R value in Milwaukee County observed (R = 0.86 on April 7, 2020), we observed an increase in R to a high of 1.50 on May 8, 2020 and then a decrease to a low of 0.75 in the county on May 21, 2020. The R increased again to a more recent high of 1.43 on September 10, 2020. Patterns in the City of Milwaukee are very similar to those in the county overall. Patterns in the suburbs show more fluctuation. The R values for the week of March 31, 2021 through April 6, 2021 are 1.071 for the county, 1.107 in the city, and 1.014 in the suburbs.

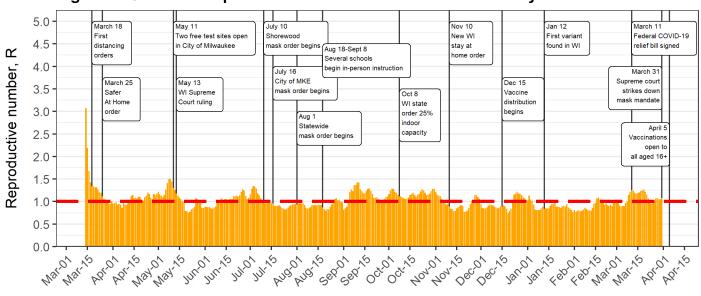
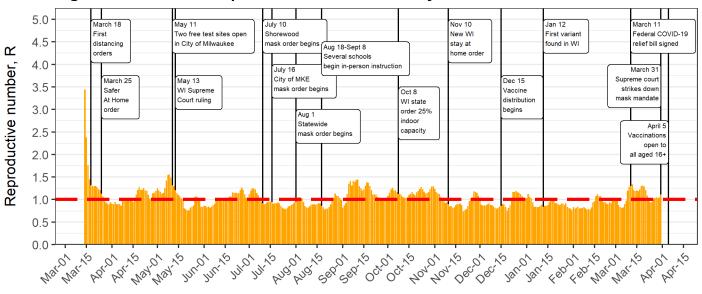


Figure 5: One week reproductive number for Milwaukee County

One-week window start date

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

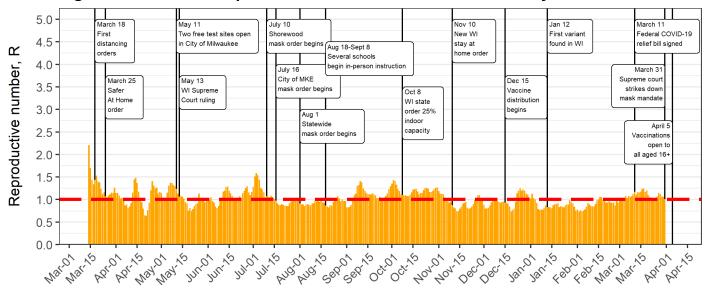
Figure 6a: One week reproductive number for City of Milwaukee



One-week window start date

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Figure 6b: One week reproductive number for Milwaukee County suburbs



One-week window start date

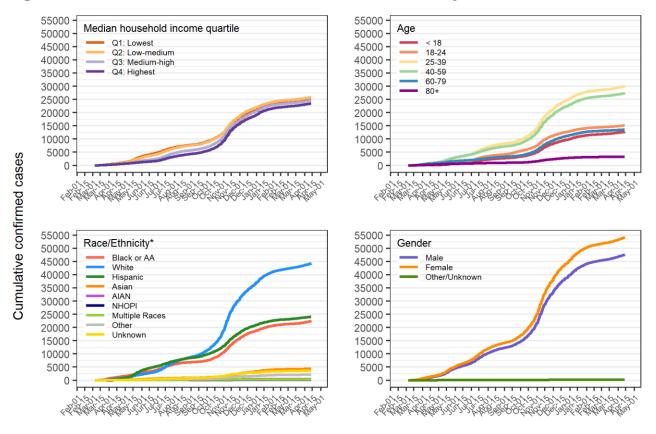
Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Demographic Patterns - Age, Sex, Race and Ethnicity

Confirmed cases

COVID-19 cases vary by demographic characteristics. **Figure 7** shows cumulative case plots including confirmed positive cases with an available specimen collection date, plotted by census block group (CBG) median household income, sex, age, and race/ethnicity groups. Most diagnosed cases fall within the ages of 18-79. The cumulative number of cases among those aged 25-39 (N = 29948) still exceeds the number among the next highest group, those aged 40-59 (N = 27305). The number of cases under age 18 (N = 12685) approaches the number diagnosed among those 60-79 (N = 13540). Of all confirmed cases, 47% are male and 53% are female. The largest number of cases have been identified among the non-Hispanic White population (N = 44223), followed by the Hispanic population (N = 24039), and the Black/AA population (N = 22457). The lower two quartiles of median household income (\$0 to \$35,833, and \$35,834 to \$50,096) have a larger number of cases than the higher two quartiles (\$50,097 to \$68,393, and \$68,394 to \$250,001), with the fewest cases identified among the highest income group.

Figure 7: Cumulative confirmed cases in Milwaukee County



Date of specimen collection

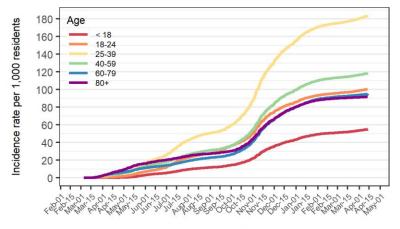
Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race.

AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

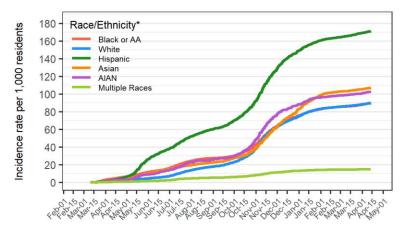
When examined as population-based rates in **Figure 8**, demographic patterns are also apparent. Early in the epidemic, we saw a clear age gradient in population-based rates, with older populations experiencing greater rates. However, in the last months, we have seen rates among the younger, working age groups (18-24, 25-39, and 40-59) exceed the rate of those aged 80+. The rate among those 60-79 (94.83 per 1,000) now exceeds that of those aged 80+ (91.73 per 1,000) and the rate among those 40-59 (118.26 per 1,000) exceeds that among those 18-24 (100.28 per 1,000). By race and ethnicity, the rate was highest among Black/AA populations until the beginning of May 2020, when we observed a surge among Hispanics resulting in the Hispanic rate (171 per 1,000 people) exceeding that among all other racial and ethnic groups. The rates among Asians (107.04 per 1,000 people) and AIANs (102.65 per 1,000 people) come next. Rates among Black/AAs and Non-Hispanic Whites are similar. The rate among females (109.89 per 1,000 people) exceeds the rate among males (102.97 per 1,000 people).

Figure 8: Population based incidence rates in Milwaukee County



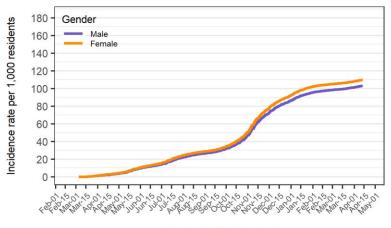
Age	N Cases	Population	Rate per 1,000 residents
< 18	12685	231111	54.89
18-24	15131	150895	100.28
25-39	29948	163246	183.45
40-59	27305	230887	118.26
60-79	13540	142783	94.83
80+	3237	35287	91.73

Specimen collection date



Race/Ethnicity*	N Cases	Population	Rate per 1,000 residents
Black or AA	22457	249011	90.18
White	44223	493723	89.57
Hispanic	24039	140575	171.00
Asian	4329	40443	107.04
AIAN	477	4647	102.65
Multiple Races	358	24224	14.78

Specimen collection date



Gender	N Cases	Population	Rate per 1,000 residents
Male	47536	461670	102.97
Female	54123	492539	109.89

Specimen collection date

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS)

Created by the Milwaukee County COVID-19 Epidemiology Intel Team

*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race.

AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

Hospitalizations

A total of 6268 Milwaukee County residents have been hospitalized due to COVID-19. **Figure 9** shows cumulative hospitalizations based on lab specimen collection date (as admission dates are incomplete). The highest number of hospitalizations continues to be among those ages 60-79 (N = 2408). The highest number of hospitalizations have now occurred among Non-Hispanic White community (N = 2595), followed by the Black/AA community (N = 2206), and then the Hispanic community (N = 1068). Overall, counts are lower among other racial and ethnic groups. Females outnumber males, comprising 52.5% of all hospitalized cases. More individuals among lower income than higher income groups have been hospitalized, with a clear income gradient observed.

Median household income quartile 3000 3000 Q1: Lowest < 18 Q2: Low-medium 18-24 2500 Q3: Medium-high 2500 25-39 Q4: Highest Cumulative cases among patients who became hospitalized 2000 60-79 2000 1500 1500 1000 1000 500 500 ?n?!!\#?&&&QQ;??? Race/Ethnicity* Gender 3000 3000 Black or AA Male White Female 2500 Hispanic 2500 Other/Unknown Asian AIAN 2000 2000 NHOP Multiple Races 1500 1500 Other Unknown 1000 1000 500 500 ૮ૹ*ૹૹૢૹૢૡૡ૽ૹૢૹૢઌઌઌ૽ઌ૽ૹ૱ૹૹૹૹૹૹૹૹૹૹૹૹૹૹૹૹૹ* Ŷ*ૹ૽ૹૢઌૣૡઽૡૣઌ૿ૺૡૢ૱ૺઌૣઌઌઌૢઌૢ૽ૢ૽ૡ*ૢૹ૽ૹ૱ૢઌૢઌૢ*ૢૻઌૼ*ઌૢૡૢ૽૾ઌૺઌ૾૾ૹૢૹૢઌૢઌૢઌૣઌૣઌૢઌ

Figure 9: Cumulative hospitalizations in Milwaukee County

Date of specimen collection

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

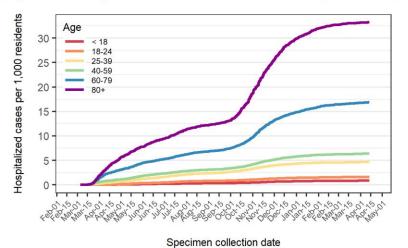
*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race.

AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

When examined as population-based rates and case-based rates in **Figure 10**, hospitalization patterns are also apparent by demographic characteristics. Both population- and case-based hospitalization rates exhibit a clear age group gradient, with older age groups experiencing higher rates. For race and ethnicity and gender plots, note that the vertical axis has been adjusted this week to reveal variation and the scales are no longer directly comparable across age, gender, and race/ethnicity plots. By race and ethnicity, population and case-based hospitalization rates are highest among the AIAN and Black/AA populations and the population-based rate is lowest for non-Hispanic Whites. Note the variation in the timing of rate

increases across racial and ethnic groups. Rates by gender are very similar. All rates presented are crude rates and only groups with 10 or more total hospitalized cases are shown.

Figure 10: Population and case based hospitalization rates in Milwaukee County

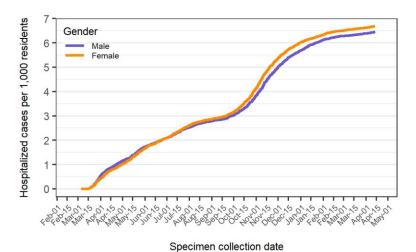


Age	N Hospitalized Cases	Rate per 1,000 residents	Rate per 100 cases
< 18	196	0.85	1.55
18-24	241	1.60	1.59
25-39	770	4.72	2.57
40-59	1481	6.41	5.42
60-79	2408	16.86	17.78
80+	1172	33.21	36.21

9 -	Race/Ethnicity*
8 -	Black or AA White
7 -	- Hispanic
6 -	Asian AIAN
5 -	
4 -	
3 -	
2 -	
1 -	
0-	
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Specimen collection date

Race/Ethnicity*	N Hospitalized Cases	Rate per 1,000 residents	Rate per 100 cases
Black or AA	2206	8.86	9.82
White	2595	5.26	5.87
Hispanic	1068	7.60	4.44
Asian	223	5.51	5.15
AIAN	43	9.25	9.01



Gender	N Hospitalized Cases	Rate per 1,000 residents	Rate per 100 cases
Male	2978	6.45	6.26
Female	3288	6.68	6.08

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS)

Created by the Milwaukee County COVID-19 Epidemiology Intel Team

*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race.

AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

Deaths

There are now a total of 1287 confirmed deaths in Milwaukee County, representing a case fatality rate of 1.3%. We observed 4 new deaths over the past week in the county. Mortality patterns differ by demographic characteristics, as shown in **Figure 11**. The largest number of deaths are recorded among those age 60 or older. The largest number of deaths are recorded for males (N = 657) and for non-Hispanic Whites (N = 706) followed by Black/AA residents (N = 360). By income, there are a larger number of deaths among the two lower income groups as compared to the two higher income groups. Deaths among Hispanics remain relatively low.

700 Median household income quartile 700 Age Q1: Lowest < 18 600 600 Q2: Low-medium 18-24 Q3: Medium-high 25-39 500 Q4: Highest 500 40-59 60-79 400 400 300 300 200 200 100 100 **Cumulative deaths** 700 Race/Ethnicity* 700 Gender Black or AA 600 600 White Female Other/Unknown Hispanic 500 500 Asian AIAN 400 NHOPI 400 Multiple Races Other 300 300 200 200 100 100

Figure 11: Cumulative deaths in Milwaukee County

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

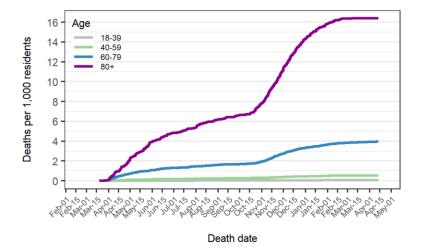
*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race.

AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

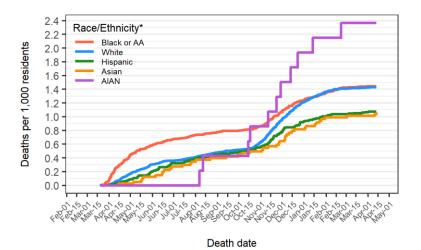
In terms of population- and case-based rates shown in **Figure 12**, there is a clear age category gradient, with higher death rates among older populations. For race and ethnicity and gender plots, note that the vertical axis has been adjusted this week to reveal variation and the scales are no longer directly comparable across age, gender, and race/ethnicity plots. Males have a higher death rate than females. The AIAN population has the highest population and case-based death rates, although the total number of deaths is small in comparison to other racial and ethnic groups. Black/AA populations and non-Hispanic Whites have the next highest population and case-based death rates. All rates presented are crude rates and only groups with 9 or more total deaths are shown.

Date of death

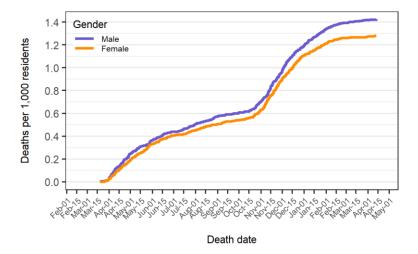
Figure 12: Population and case based death rates in Milwaukee County



Age	N Deaths	Rate per 1,000 residents	Rate per 100 cases
18-39	20	0.06	0.04
40-59	125	0.54	0.46
60-79	563	3.94	4.16
80+	578	16.38	17.86



Race/Ethnicity*	N Deaths	Rate per 1,000 residents	Rate per 100 cases
Black or AA	360	1.45	1.60
White	706	1.43	1.60
Hispanic	151	1.07	0.63
Asian	43	1.06	0.99
AIAN	11	2.37	2.31



Gender	N Deaths	Rate per 1,000 residents	Rate per 100 cases
Male	657	1.42	1.38
Female	630	1.28	1.16

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS)

Created by the Milwaukee County COVID-19 Epidemiology Intel Team

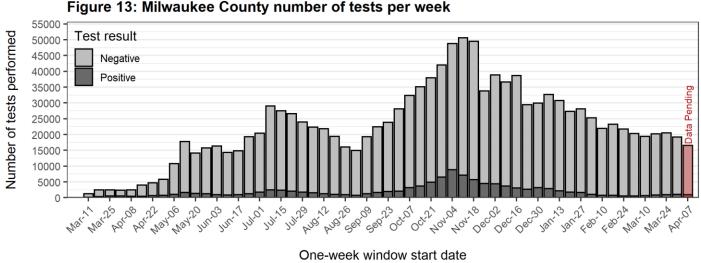
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Testing Coverage

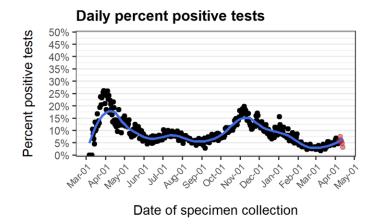
Testing for the novel coronavirus is an important public health response to limiting the spread of the infection. Testing capacity was limited in Milwaukee County and across the country earlier in the epidemic, but then increased. Since the first case of COVID-19 was diagnosed in Milwaukee County on March 6, 2020, a total of 1295453 COVID-19 tests have been performed, with 1181316 negative results and 114137 positive results. This represents a positive test rate of 8.8% since the beginning of the epidemic.

As shown in **Figure 13**, total tests per week increased until early July and then declined, with another increase starting in early September and peaking in early November, followed by a decline. Testing markedly decreased the weeks of Thanksgiving, Christmas, and the New Year. As shown in **Figure 14**, the percentage of positive tests varied over the course of the epidemic, with a high of 25-30% in early April. The percentage of positive tests was 5.7% over the past week compared to 5.6% the previous week. **Figure 14** also illustrates the 14-day trend in the percent positive tests, showing no significant change. Percent positive should be interpreted in the context of potential data delays given the large numbers of tests conducted in recent weeks, and considering that data entry for positive tests is prioritized.

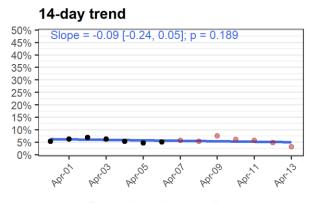


Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Figure 14: Milwaukee County percent positive tests



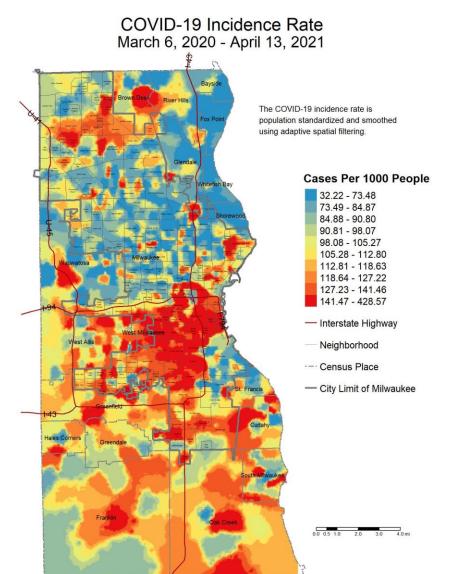
Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team



Spatial Patterns of Cases and Testing

COVID-19 spread is spatially patterned. Map 1 below illustrates the cumulative burden (all confirmed cases) of COVID-19 in Milwaukee County. Map 2 shows cases confirmed over the last two weeks. Map 3 shows the overall testing rate across the population. Map 4 shows the testing rate over the last two weeks. Map 5 depicts the percentage of tests that were confirmed positive. Map 6 shows cumulative COVID-19 related hospitalizations. Map 7 shows the percentage of cases who have been hospitalized. Map 8 shows the overall COVID-19 mortality rate, excluding cases and corresponding population denominators residing in group quarters such as nursing homes and long-term care facilities. All are crude rate maps created using census block group level COVID-19 data from WEDSS and population data from the US Census. The maps are smoothed to protect confidentiality and ensure that rates are stable while still providing geographic detail. Deciles are used to define categories. High rates are depicted in red with lower rates depicted in blue. Of note, some of the higher rates observed can be attributed to infections that have spread within group quarters, such as a nursing home, prison, or long-term care facility.

Decile Map 1: All confirmed cases of COVID-19



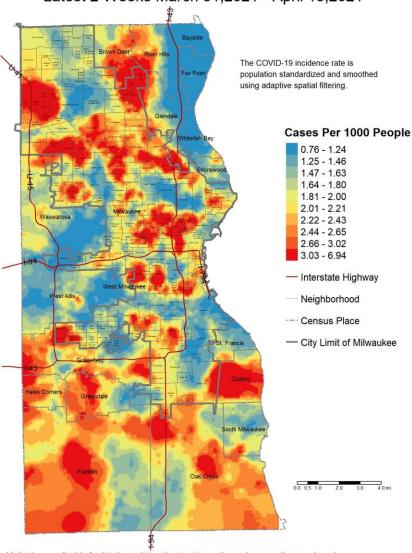
Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 confirmed cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data) City of Milwaukee Map Milwaukee Portal (neighborhood boundaries) Census Bureau TIGER/Line Shapefiles (census place boundaries)

Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 2: Confirmed cases of COVID-19 within the last two weeks

COVID-19 Incidence Rate Latest 2 Weeks March 31,2021 - April 13,2021

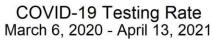


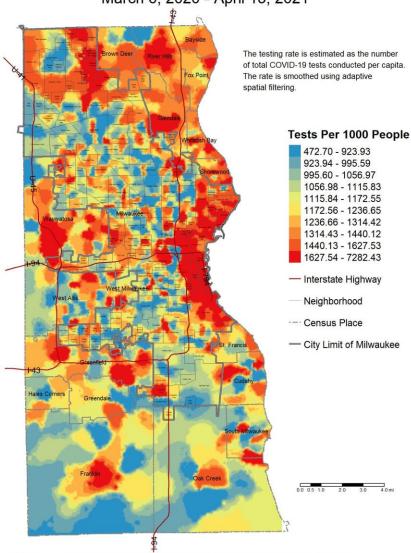
Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 confirmed cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data)

2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TiGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 3: Overall testing rate





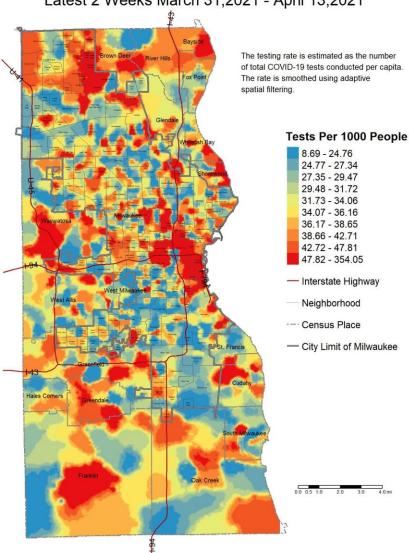
Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 tests included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data) City of Milwaukee Map Milwaukee Portal (neighborhood boundaries) Census Bureau TIGER/Line Shapefiles (census place boundaries)

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Decile Map 4: Testing rate within the last two weeks

COVID-19 Testing Rate Latest 2 Weeks March 31,2021 - April 13,2021



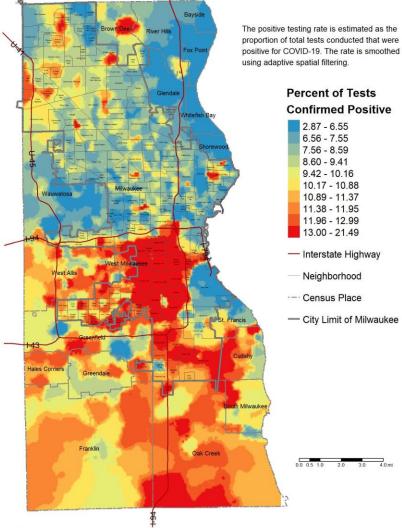
Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 tests included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data) City of Milwaukee Map Milwaukee Portal (neighborhood boundaries) Census Bureau TIGER/Line Shapefiles (census place boundaries)

Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 5: Percentage of tests that were confirmed positive



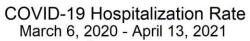


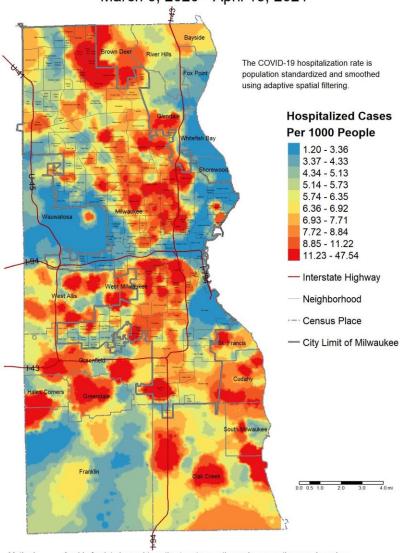
Method: A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 positive tests included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data)

2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TiGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 6: COVID-19 related hospitalizations





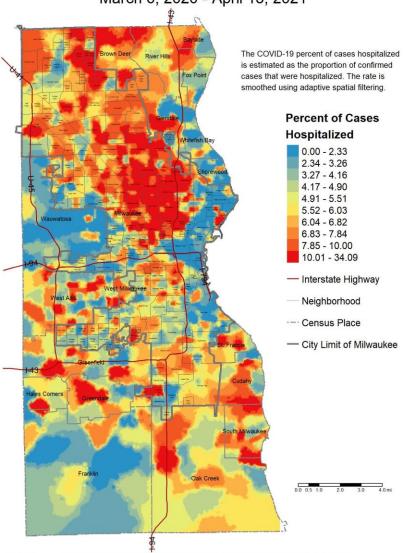
Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 hospitalized cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data) City of Milwaukee Map Milwaukee Portal (neighborhood boundaries) Census Bureau TIGER/Line Shapefiles (census place boundaries)

Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 7: Percentage of COVID-19 cases that were hospitalized

COVID-19 Percent of Cases Hospitalized March 6, 2020 - April 13, 2021

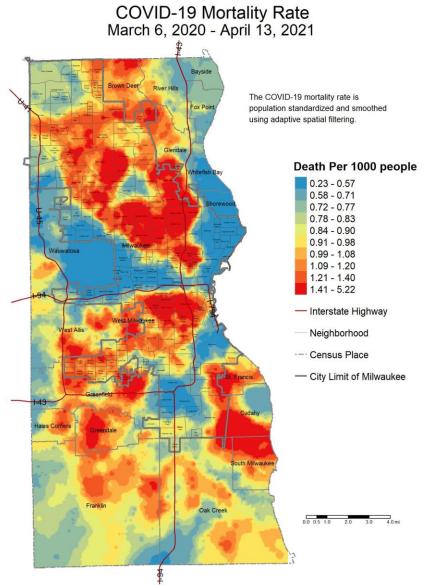


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 confirmed cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data)

2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TiGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 8: COVID-19 mortality rate (group-quarter cases excluded)



Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 10 death cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data) City of Milwaukee Map Milwaukee Portal (neighborhood boundaries) Census Bureau TIGER/Line Shapefiles (census place boundaries)

Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Data Sources & Acknowledgments

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